KENWOOD

UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

UD-405

INSTRUCTION MANUAL

KENWOOD CORPORATION



Before applying power

JD-405 [En

Units are designed for operation as follows.

U.S.A. and Canada	AC 120 V only
Eurone and U.K.	AC 230 V only
Australia	AC 240 V only
	AC 220 V only
*Other countries	AC 110-120 / 220-240 V switchable

For the United Kingdom

Factory fitted moulded mains plug

- 1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
- 2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
- 3.Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

> Blue : Neutral Brown : Live

Do not connect those leads to the earth terminal of a three-pin plug.

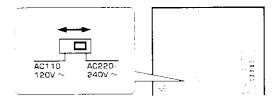
For other countries

*AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch

Move switch lever to match your line voltage with a small screwdriver or other pointed tool.



· ote

Our warrant, goes not cover damage caused by excessive line voltage due to improver setting of the AC voltage selector switch.

Safety precautions

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers (Except for some areas)

CLASS 1 LASER PRODUCT

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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Easy operation

Nearly all operations for CD, tuner, and cassette deck can be done just with the self-illuminated basic operation keys. (Color keyed function control).

Dynamic rotary volume control

When adjusting the volume, fast turning of the volume control produces a larger volume change for the same angle of rotation of the VOLUME CONTROL knob. Slow turning produces a small volume change, thus permitting fine adjustment.

3-Disc carousel CD player

- 16

Three discs can be set. There are various ways for enjoyment at the time of program playback, repeat playback, random playback, etc.

One-touch edit

- 35 - 36

One-touch recording of only a single title or the entire CD is possible while listening to a CD.

Versatile tone and sound field adjustment

- 40 **-** 41

Equalizer patterns can not only be selected from preset patterns, but patterns also can be created and registered. It is possible to recreate a feeling of presence and to recreate a sound field.

Karaoke also can be enjoyed.

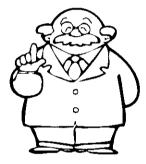
- 42

When the HIT MASTER function is used with mic mixing, normal CDs and tapes with voice recorded on them can be used as Karaoke software.

Simple operation timer

- 45

Wake-up timer and sleep timer setting is simple. There are also two types of program timers operating every day.



Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Accessories

FM indoor antenna (1)

Speaker cords (2)



Loop antenna stand (1)









Remote control unit (1)

Batteries (R6/AA) (2)

Insulators (8)



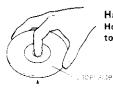




Please attach to the speaker pottom

UD-405 (F--

Disc handling precautions



Handling

Hold compact discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of compact discs.



Cleaning

If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.



Storage

When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

Caution on disc used





Never play cracked or warped disc.

During playback, the disc rotates at high speed in the player. Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Discs which can be played with this unit

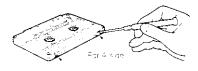
CD (12 cm, 8 cm), CDV (only the audio part)

If. CD-3 ICD Graph estituses, this unit can play only the audio.

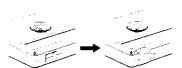
Notes on cassette tape

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.



FlorBlade



To re-record

Apply tape only to the position where the tab has been removed.

To store cassette tapes

do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



1 110/120-minute cassette tabe

- Since a 110/120km nute cassette fabers zero thin ithe tabe could adhere to the pinch roter or be easily broken. It is recommended that these fabes not be used with this work to prevent possible damage.
- 2 Endless faces
- Do not use an endiess tabe, as this could damage the mechanism of the on t



Connection of the System Accessories

This is the connection method for system and accessories. Please look carefully at the illustration and connect correctly in the order of the numbers.

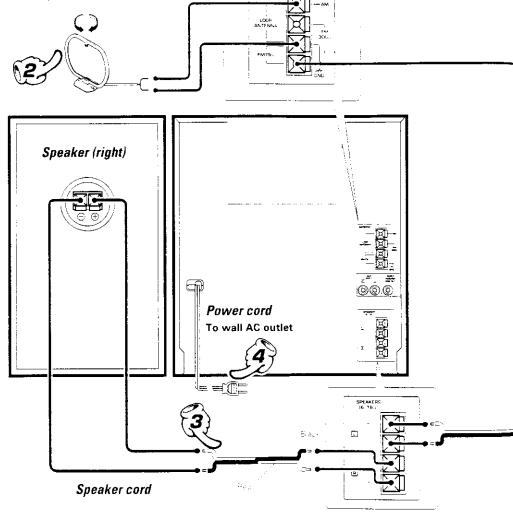
Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".



AM loop antenna

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



ANTENNA

Main Unit







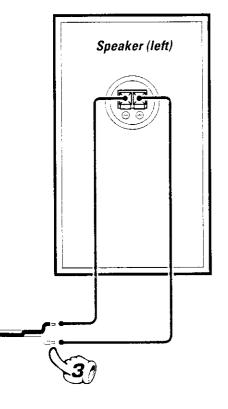




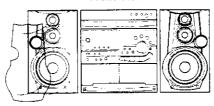
FM indoor antenna

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.

- O Strip the coating from the tip of cord and twist the conductor.
- 2 Locate the position providing good reception condition.
- **©** Fix the antenna.



Front View





- . In case an associated system component is connected, also read the instruction manual of the component.
- 2. Never short-circuit the + and speaker
- 3. If the left and right speaker connections or the + and - polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mis-





Speaker Unit









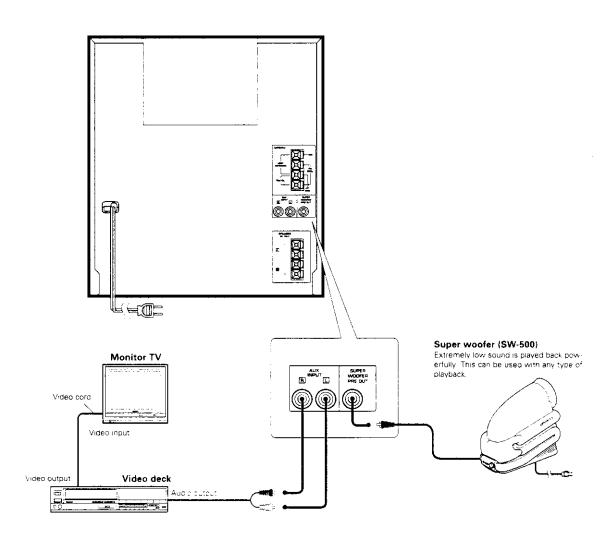




- 1 Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not produced or noise may interfere.
- 2. Sefore clugging or unblugging a connection cord, be sure to unplug the power cord from the wall AC outlet. f connection cords are plugged or unplugged with the power cord left blugged n, maifunction or damage may result.

Connection of Options (Optional Parts)

Connect separately sold parts as shown in the figure. Do not plug the power cord into the power outlet until all of the required connections have been made.

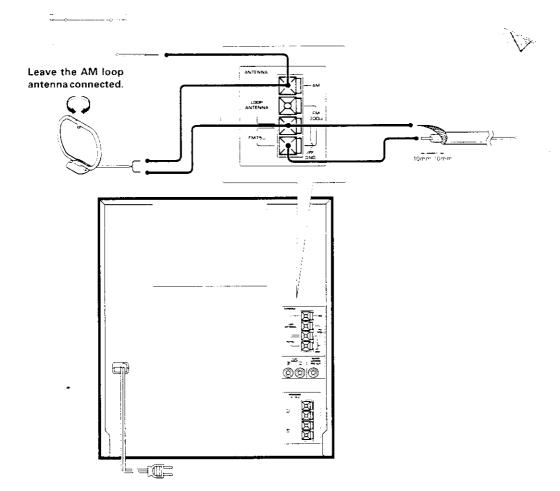


AM outdoor antenna

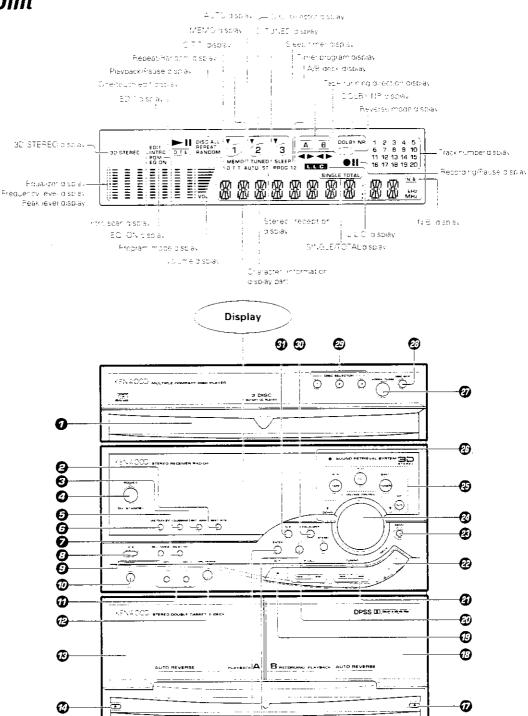
If the reception is poor when the AM loop antenna is used, distribute a vinyl-coated wire of more than 6 meters outdoors, without disconnecting the loop antenna.

FM outdoor antenna

Lead the 75 Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 Ω termimal.



Main Unit



- 15

inree discs can be stored	
@BEST HITS key Recording or one title or ea	en stored CD in sequence on tape.
	+ 25 this switch is pressed during recording, an of about 4 sec is produced and then the
OPOWER key Power CN/OFF switching	- <u>14</u> s executed
ODUBBING key The contents of the tabe to Black	+ .27) the Alaeuk are copied to the tabe of the
	the state of the s
praved at that time will be re	during CD playback, only the title being ecorded on tape. When this key is pressed a stithat time will be recorded on tape from
ODOLBY NR kev	- 19
Dorby no se reduction City:	OFF switching is executed
⊙ A/B key	→ 15 → 18° e ected. At the time of cower OFF cower
ODEN MODE have	100
PREV. MODE key The reverse mode of the switched.	— <u>. 19.;</u> geck both sides, repeated, one sidel is
	521
@PHONES terminal	- 15
For connection of a neador	one loptionali
MIC 1, MIC 2 termina For connection of a micros	
	$+\frac{42}{100}$ ne balance between the voice signal from
the microphone and the dis	
	•
	sette holder at theit me of cassette holder
© ENTER key	- 44
used for time setting time	
The level for bullet listening switching is possible.	Control) key - 39 g can be set in advance, and che-touch
ØB deck eject (≜) key	
B deck cassette holder	
Ø AUTO (∎) kev	
For TUNE®	Used as the STOP key. Used as AUTO key for tuning mode's witch-

na

Used for time setting

Used for skip title selection

used as the **P.CALL** key for selection of

used as **SKIP** • ev

preset stations

At the time of power CFF

@P.CALL (เ◄◄ ►►) key

For TARE.

FOR TUNER

- 16

@N.B. kev

volumes

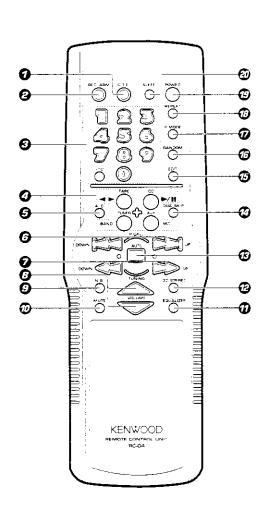
O Disc trav

Inree discs can be stored

@TUNING (◄◄ ►►) key For CD. TAPE. Used as fast forward and rapid reverse ĸev. For TUNER: Used as TUNING key to tune in to sta-@ MODE key **→** 38 This key switches the function of the VOLUME CONTROL knob. The items which can be selected differ according to the status at that time @ DEMO kev **-** 40 Demonstration ON/OFF is switched + 14 **ØVOLUME CONTROL knob** Normally this is used for volume adjustment. Decending on the purpose, the function can be switched with the MODE key @Input selector keys The input source is selected. When a key other than VD (AUX) is pressed while the power is OEE, the power is switched on automatically. When TAPE or CD has been selected and a tape or a disc has been set, playback will start automatically. When the ◄ ► (TAPE) key is pressed during tape playback, the tape running direction is reversea. @3D STEREO kev 3D STEREO ON/OFF is switched. + 16 @ OPEN/CLOSE (▲) key The disc tray is opened and closed. + 17 @DISC SKIP key The disc for playback for recordingliss selected. This is also used for insertion of a CD to the inside of the disc tray **-** 17 @ DISC SELECTOR key The disc for playback (or recording: is selected.) @EQUALIZER key - 40 The equalizer effect is switched ON/OFF and the type of equalizer effect is selected.

The low sounds are compensated at the time of listening at low

Remote control Unit



The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

O.T.E. key This key has the same function as the ONE TOUCH EDIT in main unit.	= 34 evion the
ØREC ∕ ARM key	→ 25
Number keys Used as number keys when the input is switched to CD.	- 17
OInput selector keys	- 14
9 A / B key1	5 – _18
③P.CALL (Preset Call) (I◄◄ ►►I) keys	
② TUNING (◄◄ ▶►) keys	
3 VOLUME keys	→ 14
This has the same function as the VOLUME CONTROL main unit. However, the Al VOLUME function does not be	
	erate. Tiri
⊙N.B. key	→ [1]2
MUTE key This is used to mute the sound temporarily.	- _15
DEQUALIZER key	→ _40
33D STEREO key	41
Ð AUTO (■) key	
ODISC SKIP key	- 17
⊕EDIT key	- 34
Used for CD epit recording (time edit recording)	
® RANDOM key	- 32_
For CD playback, switching is executed between introductioning, random playback, and normal playback.	ton scar
P.MODE kev	- 28
Used to program the CD playback sequence	Sec. 20
ØREPEAT key	 30
Used for repeated playback of a CD.	
POWER key	- 14
@SLEEP key	- _45_
Use to set the sleep timer	

Loading batteries

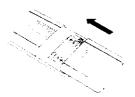
• Remove the cover.



(2) Insert batteries.



Close the cover.

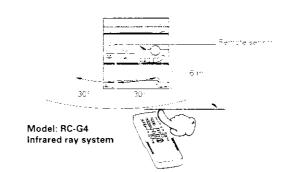


Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

After plugging the power cord of this unit, press the POWER key of the remote control unit to turn the power of the system ON. When the power is turned ON, press the key of the function to be operated.

 When cressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.

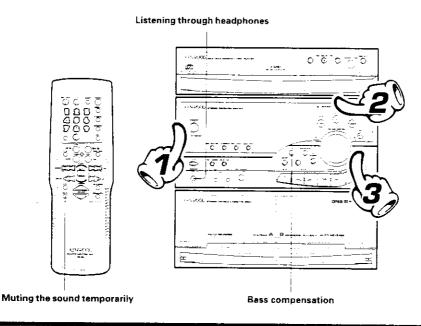


Operating range lapprox



- The provided batteries are intended for use in operation checking, and their service life may be short
- 2. When the remote control able distance decomes short, replace both of the catteries with new ones.
- 3. If direct surlight or the Eght of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, maifur at on may occur in such a case, change the installation position to avoid malfunction.

Basic use method



Press the POWER key.

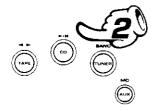


1. Switching the power ON (OFF)

The power also is switched on when an input selector key (CD, TAPE, TUNER, etc.) is pressed.

When the POWER key is pressed while the power is ON, the power will be switched OFF.

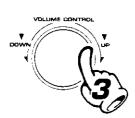
 The display part becomes dan, which the power is switched OFF (DiMMER function)



2. Selecting the desired output

CD - 16
Tape - 18
Broadcasts - 22

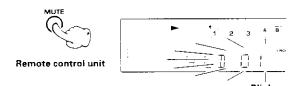
 When CD or TAPE is selected, playback will start when a disclor a tabela ready has been inserted.



3. Volume adjustment

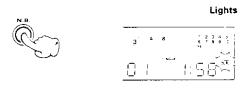
- Quies turning produces a larger change amount (Dynamic rotary volume controtunction)
- ●The display shows a reference value

Muting the sound temporarily (Remote control unit only)



- Press again to resume the original votume.
- This is cancelled when the volume or the L.L.C. is operated

Bass compensation (N.B.: Natural Bass circuit)



This is cancelled when it is pressed again.

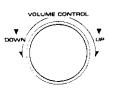
Listening through headphones

Oinsert the headphone plug into the PHONES jack.



The sounds from all speakers are cut off.

Adjust the volume.



AUTO POWER SAVE function

When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function. This function can be made active or not active by the following operation.

Press when the power is OFF.



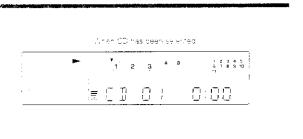


Each press switches the modes as follows.

- ON..... Auto power save is used.
 2 OFF.... Auto power save is not used.
- •This goes not operate when the input selector is set to AUX MD-

STANDBY mode of POWER switch

When the power cord of this system is plugged into an AC outlet, the display lights up regardless of the ON/OFF setting of the POWER switch. This indicates that a small amount of current is being supplied to the unit to back up the memory contents. This mode is referred to as the Stand By mode. While the display is lit, the power of the system can be switched ON/OFF from the remote control unit.



1	5	3	Δ	В	1 2 3 4 5 4 7 8 9 W
	i /		_		20

, in the 150 $m_{\rm c}$

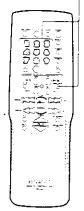
uD-405 (Er)

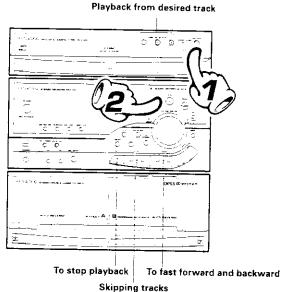
Playback of CD



When a disc is placed into the CD player in advance, this unit will be switched on automatically and the CD will be played when the CD (>11) key is pressed.

Playback from desired track





1. Load a disc.



The tray opens when the key is pressed and closes when the key is pressed again.

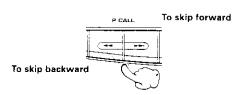
- Open the tray.
 - O Place a disc.
 - Select the disc to be played.
 - OClose the tray.



2. Start playback.

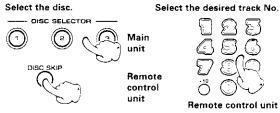


Skipping tracks



- The track in the direction of the button pressed is skipped, and the selected track will be played from the beginning.
- When the i◄◄ key is pressed once during playpack, the track being played will be played from the beginning,

Playback from desired track

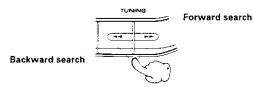


Press the numeric keys as shown below....

To enter track No. 23 : (+10) (+10) [3]

To select track No. 40: +10 +10 +10 0

To fast forward and backward



Playback starts from the position where the key is released.

To pause playback



• Each press pauses and plays the CD alternately

To stop playback



- •Do not touch the played side of disc
- Rotate the tray with the DISC SKIP key to insert the third disc.
- The tray of the disc to be played should come to the left position when the unit is seen from the front.

îna moorbea track Nos, are shown.

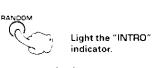


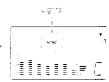
gots when a dintill inspired antifer time of previous

After a tew seconds, blavistarts from track No.1

Introduction scanning

Each title is played back in sequence for about 10 seconds. This is convenient to find titles to be played back with a disc being listened to for the first time etc.





Remote control unit

Each press switches the modes as follows.

" "INTRO" lit...... Introduction scanning C "DISC RANDOM" lit......Random playback (1 disc) : "ALL RANDOM" lit......Random playback (all discs) - : "INTRO" and "RANDOM" not lit

...... Normal playback

- Stock if executed after introduction scanning for all discs.
- Combination is threepeatic avback is possible.
- For handeliation, cress the RANDOM vey three times

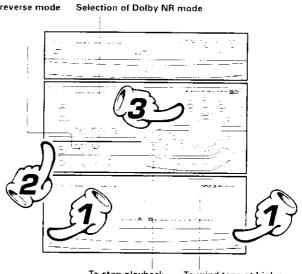
Playback of tape



When a tape is placed into the cassette deck in advance, this unit will be switched on automatically and the tape in deck B will be played when the TAPE (◀ ►) key is pressed.

Selection of reverse mode





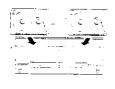
To stop playback To wind tape at high speed

1. Load a cassette tape.



Open the door. @insert a tape and close the door.





2. Select the deck to be used for playback.

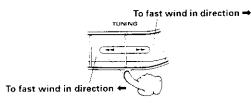


3. Start playback.



Each time the key is pressed, the tape running direction is changed.

To wind tape at high speed



Press the ■ key to stop fast winding

Selection of reverse mode.



Each press switches the modes as follows.

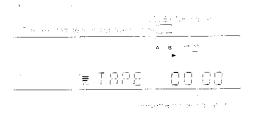
- " " " Both sides are played back (recorded), and then the tape stops.

 2 " " Both sides are played back endlessly.
 - (The tape stops after recording onto both sides.)

 = 3 "=="....Only one side is played back (recorded),
- and then the tape stops.



- Cotoma (TVPE) I unigni (MPE) II uncometa. TVPE IV itabe selection is
- Remove tabe stack before, bading
- Cinse the apprisedure v



To stop playback



Do not press the eject key until the tape has stopped completely.

Selection of DOLBY NR (Noise Reduction)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with Dolby NR ON, be sure to set the DOLBY NR ON for playback.

Lit when "DOLBY NR" is ON.





Each press switches the modes as follows.

- "DOLBY NR" ON.......DOLBY NR is used.
 "DOLBY NR" OFF......DOLBY NR is not used.
- Select the Dorby NR mode according to the recording condition of the rape

Transport direction indicators

The ≼ and ► indicators indicate the current direction in which the tape advances when playback or recording is started automatically by the easy operation function, etc. This direction is the direction stored in memory when the tape was last stopped. (To change the direction, press the TAPE (◄ ►) key then press the ♣ key.]

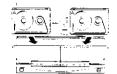






Relay play

When tapes are set in the decks A and B and the reverse mode is set to "=" (play of both sides), play of the second deck will be started automatically after play of the first deck has been completed. Tape play will be repeated alternately.



Felavicial, is not possible in the reverse modes "cizi" and "z±".

A tip for use of the tape counter

The tape counter is set to ODOO when a cassette tape is loaded. By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the ◀ tape transport indicator is lit).

To set the tape counter to CCCC, open the cassette holder once. Then the counter will be reset.



The DPSS (Direct Program Search System) is capable of detecting non-recorded spaces of more than 4 seconds as "blanks between programs" and, based on this information, can return to the beginning of the music program being played or the beginning of a desired program by skipping up to 16 other programs.

During play in direction ➤

To play the next program : Press once. To play the 4th program after the current program : Press 4 times.

PICALL



To return to the beginning of the current program : Press once. To play the 4th program before the current program: Press 5 times.

During play in direction ◄

To play the next program : Press once. To play the 4th program after the current program : Press 4 times.



To return to the beginning : Press once. of the current program To play the 4th program before the current program: Press 5 times.



the DPS\$ may not function normally with the following kinds of tabe

- Tapes containing several noisound intervals of more than 4 seconds, such as conversation and talk tapes
- Tapes containing planiss mo sections, such as classical music tape
- Tapes in which large noise is recorded in blanks between programs
- Tapes containing blanks between programs that are shorter than 4 seconds.
- Tapes recorded at low eve
- Tables recorded by cross-fade recording an worch the beginning of next program is overlapped on the end of previous program.

Receiving broadcast station

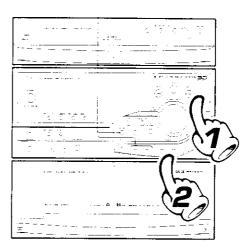
It is also possible to receive them by one-touch operations by storing up to 20 stations in the preset memory.



When the TUNER key is pressed, this unit will be switched on automatically.

Collective presetting of stations Storing radio stations in memory

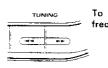




1. Select the broadcast band.

Each press alternates the band.

FΜ : AM



To increase frequency

To decrease frequency

2. Select a station.

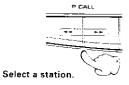
When no stations have been memorized

Auto tuning

: Each press receives the next station.

Manual tuning: Press the key repeatedly or hold it depressed until a station is

When stations have been memorized (preset call)



Every time the key is pressed, the preset stations are switched over as follows

Press ►►! for the order of 1-2-3 ... 18-19-20-1...

Press $\rightarrow 44$ for the order of $20 \rightarrow 19 \rightarrow 18 \dots 3 \rightarrow 2 \rightarrow 1 \rightarrow 20 \dots$

nermensem visital sea astonia si

Collective presetting of stations (auto preset)

Keep the ENTER key depressed (about 2 seconds).



Storing radio stations in memory (Station preset)

OPress the ENTER key during reception.

Presetting is cancelled when no operation is executed for 5 seconds or more.



@Select one of the preset numbers from 1 to 20.

Presetting is cancelled when no operation is executed for 5 seconds or more.



وكالتوابية ويروهن الأراب والرابات الماسان والمتعرفها والد



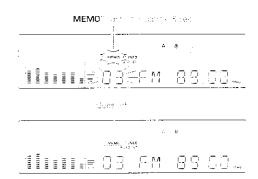




Andrew Control of the Control of the Control

Births.

- •Not not on try for FM, a maximum of 20 stations is oreset automatically
- When there are many stations and toe intenden station is a been preset, please also use. Storing radio stations in men. In.



- Repeat steps 000 to preset other stations
- if several stations are preset under the same number of previous memory is repraced with the latest men in y confern.

Select the tuning mode.



Each press alternates the mode.

"AUTO" lit (Auto tuning)2 "AUTO" not lit (Manual tuning)

Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

•illorma . Use the AUTO (Auto turing) mode

 Sunence (e.g., single debred each resent rathring of the expanse at an interval of about 1000 results.
 Sunence (e.g., single expanse)

Recording (Deck B only)

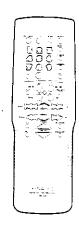


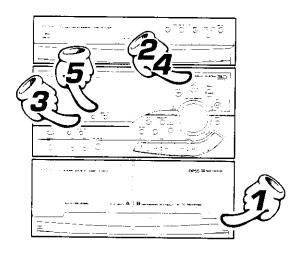
Note that this cassette deck cannot record onto Metal tapes.

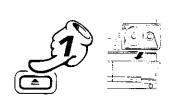


When equalizer or another effect is applied to the sound, the sound with the applied effect can be recorded.









1. Load a tape in deck B.

- Open the door of deck B.
- Olnsert a tape.
- OClose the door.

- Differentiation between normal (TYPE) I vano high ITYPE II tabe is set automatically
- Remove tape slack percise loading.
- When the inversphere is not used iset the MIC. MIXING centre knee full counterclockwise to the minimum bosition

2. Select the tape transport direction.

To reverse the transport direction



Check the tape transport direction indicator. O Start playback. @Press the key again. Stop playback.

- When recording is started, the table is trans parted in the direction selected in this step
- ullet V and the tabe to the bos bon where recording sitcipe started



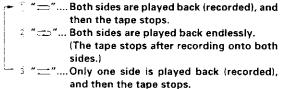
3. Set the recording condition.

- Select the reverse mode.
- Select the Dolby NR mode.

Selection of the reverse mode



Each press switches the modes as follows.



To end recording



- . When the key is pressed, recording stops after leaving a nonrecorded brank of 4 seconds.
- if the key is pressed again in less than 4 seconds after it has been pressed, recording resumes from that instant

Selection of DOLBY NR (Noise Reduction)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with Dolby NR ON, be sure to set the DOLBY NR ON for playback.

Lit when "DOLBY NR" is ON.



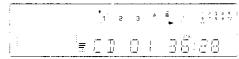


Each press switches the modes as follows.

- ► § "DOLBY NR" ON......DOLBY NR is used.
- ? "DOLBY NR" OFF......DOLBY NR is not used.

Select an input source other than "TAPE".

The indust source comparient to be 4. Select the source to be recorded. which is the second of the second o



been set in the AD blaver, its playback starts rmediate v

5. Start recording.



- Dispert timest instrumente assistativation

OPlay (or tune) the input source to be recorded.

Start recording.



- Recording stops automatically when the table side(s) to be recorded have been 10 iv recorded
- •îne peat canceri,notor car be used wher recording AIM proadpasts.



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Dolby HX Pro

The Dolby HX Pro headroom extension system records high frequencies such as the cymbal sound clearly by controlling the bias current during recording according to the frequency composition of the sound being recorded. This system is activated automatically during recording with this unit.

可能是是这种的对象的,我还是有一种人的对象的对象的,但这种的特别是<mark>是是</mark>他们的,但是是这种的,但是是这个是是是不是是这种的。

UD-405 (E-

Beat cancel function

There may be cases in which beat noise interferes with recording of AM (MW/LW) broadcasting.

In such a case, press the DEMO key during recording to reduce or suppress the beat noise. The DEMO key acts as the demonstration key except during tuner recording.

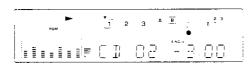




Display during recording

During recording, the time display on the display panel shows the remaining playing time of the track (or disc). The displayed contents vary depending on the play mode.

When the "PGM" indicator is not lit Remaining time on the disc being recorded.



Copying tape (Tape dubbing)

The contents of the tape in deck A can be copied onto the tape in deck B.

@Select the "TAPE" input.





OLoad tapes in the decks.

Select "

" (double-side recording) or "

" (one-side recording).





Use the same tape transport directions.

To reverse the transport direction

(1) Select the deck to change the transport direction.



(2) Start playback.





- (3) Press the key again.
- (4) Stop playback.

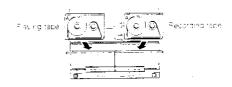


Start dubbing.





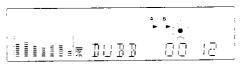
Press during stop.



Check the tape transport direction indicators.



• When recording is started, the tabe will be transported in the prestruction selected in this step.



Dubbing ends automatically when the side(s) to be dubbed has been completed.

To stop dubbing



- •The deck B will stop after creating a non-recorded portion of about 4 sec, and then the deck A will stop.
- The dupping can also be stopped by pressing the STDP key. Nonrecorded blank is not created in this case.

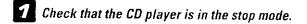


Laddenich Ladden

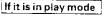
Listening in the desired sequence (program playback)

Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)

Select the "CD" input.











2 Light the "PGM" indicator.







3 Enter track Nos. in the order you want to play them.

O Select the disc.













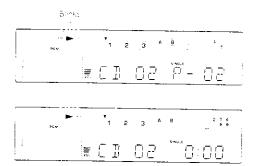
To select tracks from more than one disc, repeat **0** and **0**.

4 Start playback.





- The discidentaise be selected with the **DISC SELECTOR** key
- Up to 32 tracks can be programmed When "Flueting as aved no more tracks can be programmed
- To program all tracks of a CD, select the discland then press the P.MODE key without selecting any tracks.
- flyou make a mistake, press the P.MDDE key to guit the program mode and restart from step 2



- \bullet^{Tracks} will be played in the order they were iprogrammed in order of PiNos .
- When the

 or the

 key is pressed during play the program will unto to the preceding or the following track respectively.
- ■When the ◄◀ key is pressed once ouring playback, the lotal cosition returns to the beginning of the current, track being braved.
- A space of several seconds is produced perween tracks.

To stop playback





To add a track to the program

O Select the disc.





Press during stop.

@Select the track.



 Viner a track two is entered, the track will be added to the end of the existing program.

To quit the program mode







 Time Fig. 3 pressed during playback informatic average in tirder of trace cressiones from the current trace.

UD-405 (En)

Repeated playback

Desired titles or discs can be played back repeatedly.

Select the "CD" input.

To repeat a disc

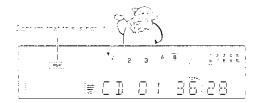


O Confirm that the "PGM" indicator is not lit.

If the "PGM" indicator is lit, press the P.MODE key to turn it off.

@Press to select "DISC REPEAT".

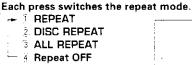
Select the disc.

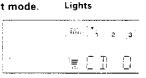
















To stop repeated playback

Press the REPEAT key twice.

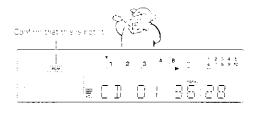
•The "DISC" and "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

To repeat all discs



O Confirm that the "PGM" indicator is not lit.

If the "PGM" indicator is lit, press the P.MODE key to turn it off.



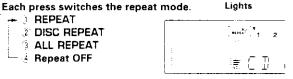
Press to select "ALL REPEAT".







1 REPEAT 2 DISC REPEAT 3 ALL REPEAT 4 Repeat OFF



Select the disc to be played first.





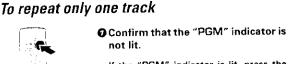
To stop repeated playback

Press the REPEAT key again.

●The "ALL" and "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

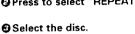
Select the "CD" input.

To repeat only one track



If the "PGM" indicator is lit, press the P. MODE key to turn it off.

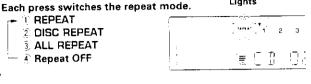
@ Press to select "REPEAT".



3, ALL RÉPEAT 4 Repeat OFF

2: DISC REPEAT

REPEAT



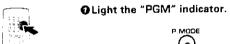
Liahts

To stop repeated playback

Press the REPEAT key three times.

• The REPEAT" indicator goes off and the playback following the current mode of the CD player starts.

To repeat only the programmed tracks



O Select the track.



PGM ::::







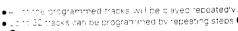




@Press to select "REPEAT".

Select the track.







Start playback.





 The "REPEAT" indicator goes off and the playback following the current mode (PGM) of the CD player, starts.

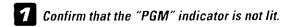
Press the REPEAT key again.

dan iration saction

Listening to an unexpected title sequence (random playback)

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

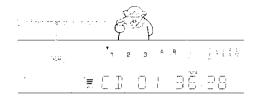
Select the "CD" input.





If the "PGM" indicator is lit, press the P.MODE key to turn it off.





2 Select the RANDOM mode.

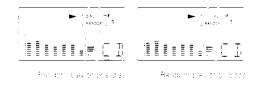
For "DISC RANDOM" playback, select the disc in advance.





Each press switches the modes as follows.

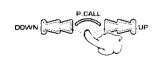
- → 1 INTRO......No random playback in this case.
 2 DISC RANDOM.......Random play of one disc
- 3 ALL RANDOM...... Random play of all discs
- 4 Normal playback



- Playback Stops after each title has been played once
- The random playback can also be repeated by pressing the REPEAT key.

To select another track in the middle of playing one





Pressing the ►
 Key once returns to the beginning of the track being played.

To cancel random playback

Press so that the "RANDOM" indicator goes off.





 The "RANDOM" indicator goes off and the playback in order of the tracks starts from the track being played.

Convenient CD recording

cording to the purpose.

UD-405 (E--

Giving preference to the tape length over the title

Selection of the convenient CD recording type With this unit, the following edit recording is possible ac-

sequence (time edit recording) If you want to avoid any tune being interrupted at Edit recording of CD is possible by the simple operation of enthe end of tape tering the recording length of the tape. Recording only desired titles **-** _35 (ONE TOUCH EDIT single title recording) If you want to select the tracks to be recorded while Play a CD and, if a track you want to record starts, press the playing a CD ONE TOUCH EDIT (O.T.E.) key. The track will be recorded from the beginning. One touch recording of an entire CD (ONE TOUCH EDIT recording of all titles) **-** 36 If you want to record a CD in order of track num-Press the ONE TOUCH EDIT (O.T.E.) key when in the stop mode. bers The disc will start to be recorded. Producing a tape collecting only the first titles **→** _37 (BEST HITS function) For recording of only one title from several CDs When the BEST HITS key is pressed, the first titles of all set CDs will be recorded in sequence on the tape. As already recorded CDs can be exchanged while recording, it is not necessary to interrupt the recording.

nication section

Giving preference to the tape length over the title sequence

(time edit recording)

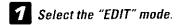
When the tape recording time is specified, recording is executed with changing the title sequence so that no title will be interrupted when the tape direction is changed at the end of one side.



When equalizer or another effect is applied to the sound, the sound with the applied effect can be recorded.

Recording preparations are required.

-14





Confirm that the "PGM" indicator is not lit.

If the "PGM" indicator is lit, press the P.MODE key to turn it off.

@ Press the EDIT key.



The editing is ended when no operation is executed for 8 sec or more.

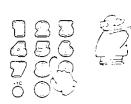
2 Select the disc.





3 Enter the recording length of the tape.





Confirm flashing of the \blacktriangleright indication and then go to step \square .

Start edit recording.





 \bullet 3s, can be the EC. Timitage press the $P.MODE \mbox{\it res}$, of the remark constraints



açã 1

•€ver in the rain into preson been selected selections of

Press the numeric keys as shown below.

30-minute tape : +10 +10 +10 0 46-minute tape : +10 +10 +10 6

- If you make a mistake in entering the reporting time. It reck that the ► indicator is binking and restart from step
- Upito 32 tracks can be edited.
- The ► indicator blinks after combletion of automatic editing.
- Every time the ►H key is pressed, the edited track numbers will be displayed in the changed drash. Press the ■ Fey to return to the track number of the first track.





- The tape and CI istoplautomatically when recording has occidented.
- The time display outing recording is the remaining time on the current side of table.



Depending on the compliance of colors have the CD contents bumper of titles and end to the titles and table recording time. Interruption of a title may not be awardable. This is not be recorded.

Recording only desired titles (ONE TOUCH EDIT.....single title recording)

At the time of CD playback, any desired title can be selected immediately for recording.



When equalizer or another effect is applied to the sound, the sound with the applied effect can be re-

cording preparations are required:

- 2



Select a mode other than random play.







When you want to record a track being played, press the ONE TOUCH EDIT (O.T.E.) key.







- ●Prayback restarts from the beginning of the track being played and recording starts at the same time.
- The time display shows the remaining time of each trac-

When recording has been completed, a non-recorded portion of 4 seconds will be produced and the cassette deck part will stop. The CD player will enter temporary stop condition.

To record a different track, repeat the steps 2 and 2.



To end recording in the middle





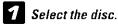
One-touch recording of an entire CD (ONE TOUCH EDIT.....recording of all titles)

When the ONE TOUCH EDIT (O.T.E.) key is pressed while the CD player is in the stop mode, recording of a CD can be started at the same time as playback.



When equalizer or another effect is applied to the sound, the sound with the applied effect can be recorded.

Recording preparations are required.



O Select the disc.









Select a mode other than random play

Step 2 also can be executed after the order of the tracks has been programmed.

Press the ONE TOUCH EDIT (0.T.E.) key.







- Recording of CD starts at the same time as playback
- At the end of tape, the music is not recorded on the leader tape. portion. If you do not want any music to be interrupted in the middle, refer to "Recording" and start recording of side B with the interrupted track





To end recording in the middle





Both the cassette deck and CD player stop

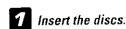
Producing a tape collecting only the first titles (BEST HITS function)

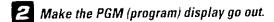
The first titles of the discs will be recorded in sequence. During recording of the third disc, the already recorded discs can be exchanged. This is convenient for collecting hits from a large number of single CDs.



When equalizer or another effect is applied to the sound, the sound with the applied effect can be recorded.

Recording preparations are required:





Switch to a mode other than RANDOM.



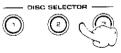




Start recording.

O Select the disc to be recorded.





@Press the BEST HITS kev.

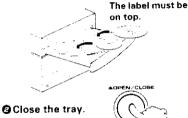


Replace the discs as required.

@Replace two discs.

The tray opens automatically.





 Playback, will start, but when recording is started by ②, return will be made to the start of the first title

Recording of the first titles will start from the selected disc



 Recording starts. The CD claver plays only the first title in sequence, starting from the disc selected in 🖸

 When recording of the toird also starts, the tray opens auto matically. The two already recorded discs can be exchanged

Recording stops at the tabelend is rigid side or both is des;

To end recording





Recording stops at the end of the present title.

When the ■ key is pressed, recording is stopped immediately

When the discs are exchanged in sequence, the recording can be continued without interruptions.

Effective Sound Adjustment

U1i-405 /Er .

This unit permits selection of equalizer and sound field playback. Please select the equalizer as desired according to the music genre. Select the sound field mode according to the desired atmosphere.

Adjustment of balance and input level

Balance..... Adjusts the balance of left and right volume.

Input level......Adjusts the volume of external equipment (video deck etc.) connected to the AUX terminal. Please adjust as required when the volume from external equipment is too high etc.

Select what to adjust.





When no operation is executed for 5 seconds or more, the adjustment is ended automatically. (Return will be made to volume adjustment.)

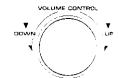
Each press switches the modes as follows.

- → プレジンさ.......Strength of the 3D stereo effect 2 ヒー・テート.. Left and right volume balance 3 INPUT.......Volume from the external equipment con
- nect the AUX terminal
 -- 4 4 00Normal volume adjustment
 - When 3D stered is ON "LEVEL" istrempth of the 3D effect erscirs displayed

2 Adjust.

BALANCE adjustment

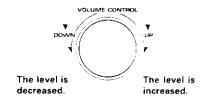




The right volume is decreased.

The left volume is decreased.

INPUT LEVEL adjustment



BALANCE adjustment

no cates the center

INPUT LEVEL adjustment



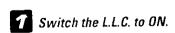
• Adjustment is possible in the range from 430 to 0

In regard to equalizer adjustment (LOW, MID, HIGH)

The setting items LOW, MID, and HIGH are displayed only when the equalizer is set to MANUAL (user memory). The result of adjustment of these items will be memorized automatically. + 40

Listening at Low Level (L.L.C.: Listening Level Control function)

When the volume for listening at low level (L.L.C. volume) is set in advance, it can be called by one-touch operation. At this time, the equalizer will be adjusted automatically for the apparent loss of high and low tones.





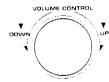




2 Adjustment of the L.L.C. volume.

Adjust the volume while the L.L.C. indicator is flashing.





The L.L.C. volume decreases. The L.L.C. volume increases.

•Vinent that 2 2 C. Volume expends 35 includementation is executed for non-and-low range.

3 Memorizing of the adjusted volume.

Press while the L.L.C. indicator is flashing.





To call the memorized volume





When the key is pressed again after the L.L.C. indicator has finished flashing, this function is cancelled.

- The volume is reduced and the low range and the high range are compensated.
- When ELLC is ON, the change amount will be constant, independent of the speed with which the VOLUME CON-TROL mob is turned.
- When the memorized L.L.C. volume is higher than the present volume, the volume will not change.
- The volume will not return to the original volume when L = C is cancered. Please adjust as required.

UD405 (6))

Listening with the desired sound (equalizer function)

In addition to four equalizer patterns, one equalizer pattern created by you can be memorized and can be called for use.

Demonstration

Equalizer and sound field effect will change sequentially. Confirm the effect.



Each press switches the modes as follows.

(Demonstration cancelled)

Selection of the equalizer pattern

The graphic equalizer patterns can be selected according to the genre of music played. Recording with applied equalizer effect also is possible.

- O Play the desired music.
- @Select the music category.







Each press switches the modes as follows.

- Creation and memorizing of an equalizer pattern

A desired equalizer pattern can be created and memorized.



ODisplay "MANUAL".



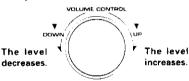
Continue to step @ within 3 seconds.

Adjust the equalizer pattern.



Select the frequency product band.

Adjust the level.

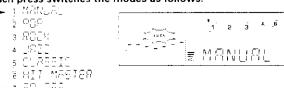


LOW, MID, and HIGH can be adjusted individually.

Memorize the setting.



Each press switches the modes as follows.



Each press switches the modes as follows.

- 1 LGR....... Low range (bass, bass drum, etc.)
 2 MTT...... Medium range (vocals, guitar, etc.)
- 3 ₽¼59......High range (cymbals etc.).



- Each frequency band can be adjusted in the range from -4 to +4
- The adjusted contents are memorized automatically



Enjoying Sound Field Effects

Please switch off the sound field effects when listening to a tape recorded with sound field effects ON.

Experiencing 3D Stereo (Sound Retrieval System)

The Sound Retrieval System is an epochal system which produces a three-dimensional sound space by applying the most suitable processing to the sound signal on the basis of the human listening mechanism. This permits real depth and sound location, considered as difficult to realize with conventional 2-channel stereo (general stereo). A sufficient effect can be obtained for any source (CD, tape, broadcasts, etc.). Recording with applied 3D stereo also is possible.



O Set 3D stereo to ON.



Adjust the effect strength (level).

LEVEL will be displayed.



Adjust the strength of the effect.

VOLUME CONTROL

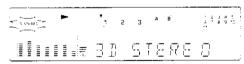


The level decreases.

Each press switches the modes as follows.

"3D STEREO" is lit.....3D stereo is ON

"3D STEREO" is not lit.... 3D stereo is OFF
Lights



Each press switches the modes as follows.

→ ₹ 55755......Strength of the 3D stereo effect

2 5 - - 7 - 2Left and right volume balance

3 TNPUT.....Volume from the equipment connected to the AUX terminal

4 VOL..... Normal volume adjustment

•30 stered ONOPF switching is not possible our ng recording

- Adjustment is possible in the range from -10 to +10
- Please set as desired apportung to the fit as deing played back

Enjoying Karaoke

When CDs or tapes with recorded voice and instrument music are played, it is possible to lower the volume only for the voice part. In combination with mic mixing, this permits easy enjoyment of Karaoke.

Connect a microphone.



OTurn the MIC MIXING control fully counterclockwise.



Plug the microphone into one of the MIC jacks.

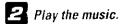


Adjust the volume balance between the music input and microphone input.

To decrease microphone volume

To increase microphone volume

- Use a microphone equipped with a mini-blug
- Set the MIC MIXING control knob to the fully counterclock wise position when the microphone is not used
- •The HIT MASTER function can be used when only normal music sources with vocal recording are available
- Adjust the overall volume with the VOLUME CONTROL knob.





Sing along with the accompaniment.



To record Karaoke singing



O Perform the procedure above until step







During Karaoke singing using the song recorded on a tape, the Karaoke sound cannot be recorded.

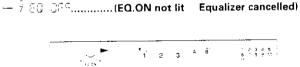
Enjoying Karaoke with software including the vocal part (HIT MASTER function)

This function makes it possible to enjoy music sources including vocal as pseudo Karaoke sources. This makes it possible to enjoy Karaoke even when no special Karaoke CDs or tapes are available.









- The L3 urns of the vocal parts of the song decreases. However
- The Journe of the vocal balls of the soing declarates in the seffect may not be clear with some songs and class.
 Alikarable face can be preated by recording the performance.

This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.

Ensure that the power is DFF.

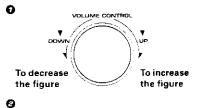
Activate the clock adjustment mode.





2 Enter the figure of hour.

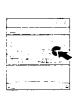


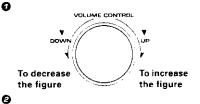






3 Enter the figure of minute.









Example: Adjustment to 8:45



The time display starts to blink



- ullet Their melof the day is represented in 12-hour AV/PM method
- Fress the ENTER key. The hour is entered and the minute display starts to blink



- If you make a mistake irestart from the beginning.
- •To adjust correct time, press the ENTER key at the same mament as a time announcement
- The time display blinks after a power failure or when the power. cord has been unblugged from the AC outlet and blugged again. in such a pase, adjust the clock again

Timer operation

405 (£4

Operate easy To use Timer (O.T.T.)

Playback of the selected input source starts at the specified time, and the power is switched off after one hour. This timer operates only once directly after setting.

Sleep timer

The power is turned OFF automatically after the specified period has elapsed.

Timer playback, timer recording (PROG.1, PROG.2)

With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

Al timer playback (PROG.1, PROG.2)

When timer playback starts, the volume increases gradually.

Adjust the clock before setting the timer.

Operate easy To use Timer (0.T.T.)

Timer playback is possible by the simple operation of setting the source to be played back and the playback start time. One hour after the start of playback, the power is switched off automatically.

O Select the source to be played.

2 Switch OFF the power supply.

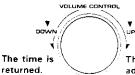
OPress the MODE key.





OSet the ON time.





The time is advanced.



GPress the ENTER key.



Sleep timer

Set the number of minutes after which the power is to be turned OFF.

Turn the power ON.





@Set the time.



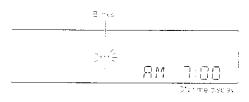




The program timer does not operate until O.T.T. operation has ended.

At the time of tape playback by timer operation, the B deck has priority.

- Set the valume
- When the MODE Hey is pressed, the input source will be disclaved, and after a few seconds, the CN time will be disclaved.



The D1, time can be set in steps of 5 minutes

To cancel

Press the MODE key twice while the power is OFF.

- The power is turned OFF automatically after the set time has elapsed
- Each cress decreases the time by 10 minutes. The maximum time that can be set is 90 minutes.

90→80→70...30→20→10→Cancel→90→80...



Quiation for steed timer

To cancel

Turn the power OFF or press the SLEEP key until the sleep time is cancelled.

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Timer programming

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) and a sleep timer system (which works only once) are available.

In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to he activated or not as required.

- Timer reservation is possible for the two types PROGIC and PROGIC at the same time.
- Please make reservations with an interval pratileast the minute isothat the operation times of PROCI Tianu PROGI 2 or not riveriable

Adjust the clock before setting the timer.

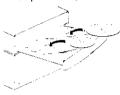
Make preparations for the play (recording).

To listen to radio

The station should be preset prior to the above.

To listen to CD

Insert a disc. (Program playback is not possible.)



Select the disc to be : The B deck has priority at played (1, 2 or 3).

To listen to tape

Set a tape into deck B.



the time of timer playback.

Playing the auxiliary input

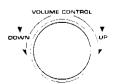
Make timer setting of the component connected to the AUX iacks.

For recording

Make preparations for recording.

Adjust the listening volume.





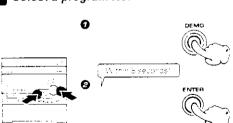
 When recording racio, the listening volume is automatically set to the minimum volume at the manient the power is turned 0% by the timer

Set the POWER switch to OFF (STANDBY) position.





Select a program No.



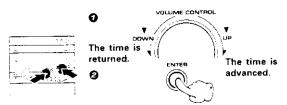
- The selected program (valights)
- r a program No. Under which at mer program has a ready been reserved, it is replaced by the new timer program

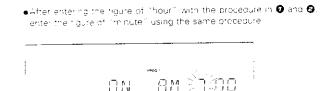
Each press of the key switches the program numbers as follows.

- 🗕 🗓 PROG 1..... Program 1
- 2 PROG.2.... Program 2 3 Normal operation

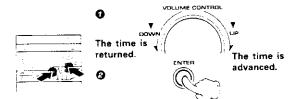


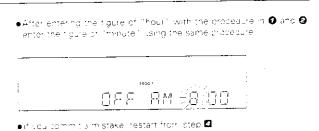
Enter the ON time.





Enter the OFF time.

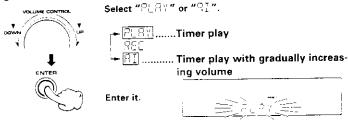




Make the desired reservation.

For timer playback or Al timer playback

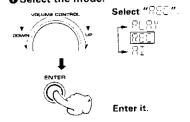
Select the mode.



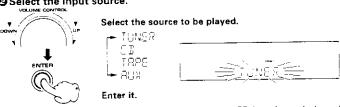
Timer recording of radio broadcasts:

Select the mode.

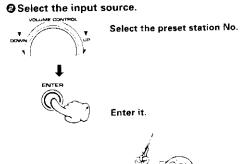
If you commit a mistake, restart from step @



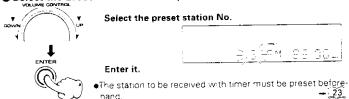
Select the input source.



@ Select the input source.

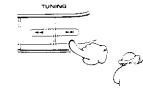


Select the broadcast station (only when TUNER is selected above).



Select the timer program No. to be used.





Each press of the key switches the program numbers as follows.

- 1 PROG.1......Execution of program 1 only. 2 PROG.2......Execution of program 2 only.
- 3 PROG.1, 2... Execution of programs 1 and 2.
 - re delected program No lights.
 - ert mer will not function unless a pragramitio ils ae ested

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Ensure that the power is OFF.

The reservation contents cannot be dieared. The contents are disared only whien they are changed.

Check the reservation content.



Select the program number to be checked.



Each press of the key switches the program numbers as follows.

PROG.1......Display of program 1 PROG.2......Display of program 2 Normal mode

> The reserved contents will be displayed for 3 socorids per item After this, the previous display content appears again

To change the reserved contents

Restart the procedure of "Timer programming" from the beginning.

When timer operation is not required



Press so that all PROG. indicators are OFF.



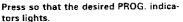
Each press of the key switches the program numbers as follows.

 PROG.1......Program 1 operates. PROG.2.....Program 2 operates.

PROG.1, 2...Programs 1 and 2 operate.

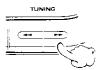
- Not lit......No program operates.

To set the same timer program again









The reservation contents are neighborn memory

Each press of the key switches the program numbers as follows.

- PROG.1.....Program 1 operates. PROG.2.....Program 2 operates.

PROG.1, 2...Programs 1 and 2 operate.

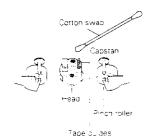
Not lit.....No program operates.

Also prepare the disc or tabe and ad ust the listening volume



Maintenance

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them perform the following:

- 1 Open the cassette holder
- Using a cotton swab dipped in alcohol, clean the head frecording / plavback erasel, capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate in such a case, demagnetize the head using a commercially available demagnetizer head eraser).



There are precisely aligned parts around the heads, including the tape guides When cleaning, pay special attention so as not to apply shock to them.

Reference

Beware of condensation

When water vapor comes into contact with the surface of a cold material, condensation is produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly

This is not a maifunction, however, and the unit should be dried-out. (To do this, turn the POVVER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a neater starts operating
- When the unit is prought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the Unit and the ambient temperature, or in conditions where condensation occurs easily.

Doiby noise reduction and HX Proincadroom extension manufactured under licence from Doiby Laboratories Electing Corporation HX Prointing and & Clufsen

"DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation

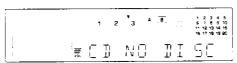
Sound Fetrieval System manufactured under idense from SRS Labs Inc. "SOUND RETRIEVAL SYSTEM" and the SRS Symbol () are trademarks of SRS Labs. Inc.
Purchase of this product does not convey the right to sell recordings mode with the SOUND RETRIEVAL SYSTEM.

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

- 1. Turn the power ON but do not load a disc.
 - Press the CD (►/III) key to check that no disc is present on the tray.
- 2. Wait a few seconds and verify that the display shown appears.



3. Turn the power OFF.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet Clock display

Stored contents which are cleared in at least a day after power plug is unplugged from power outlet

Amplifier

POWER status (ON or OFF) input selection. Volume control value.

Tuner unit

Receiving pand
Frequency
Preset stations

Program settings Cassette deck unit

Transport direction OOLBY NR Reverse mode

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Unplug the power cord from the power socket, and while holding the ENTER key depressed, plug the power cord into the socket again.
- Please note that resetting the microcomputer clears the contents stored in frequencial to condition when it left the factory.

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.		Replace with new patteries Operate the unit inside the remote control + 13 13 13 13 14 15 15 15 15 15 15 15
	 There is no table or CD set in the component to delibialists An attempt is made to play the cassette best which is recording something. 	Set a table of CD in the component to be played. Valuation: the recording ends.

Reciver unit, speakers

Symptom	Cause	Remedy
Sound is not produced.	●The speaker cords are disconnected	◆Connect properly referring to "Connect → _6_ tions"
	●The volume control is set to the minimum	•Adjust to an required volume + 14
	 □ The MUTE switch of remote control unit is: 	•Switch MUTE OFF —
	Note that the program is sense to into the action. One of the program is sense to into the action. One of the program is a program in the program in	• unplud the neadphon = blug =15
The character display blinks and sound is not produced.	●The speaker cords are short circuited	•Turn the power OFF, remove the short- + 6_ circuit and turn the power ON again
Sound is not produced from the left or right speakers.	• The speaker pords are disconnected	Connect properly referring to "System con → 16 nection".
The clock display blinks without changing the figures.	 Inere was a power fature The power cord was undugged from the outer 	• Adjust the present time again — 44 • Adjust the present time again — 44
Timer operation is not possible.	The present time has not been adjusted or there was a cover tailure. The timer ON time and OFF time have not	Adjust the present time referring to "Clock" + 44 adjustment" Set the timer ON time and CFF time + 46
	cesh set ● The ormer execution was not set up	Press the ►► key to set up the execution → 47
Radio stations cannot be received.	The anternas have not been connected. A proper proadcasting band has not been selected.	● Connect antennas - 6_ ● Select a pand - 22_
	The frequency of the station to be received short tuned.	• Tune to the frequency of the desired star + 22 tion
Noise interferes.	● Carlight on holse.	• install the outdoor antenna in an apart pos- =9fion from the road
	• influence of an electric appliance	•Switch the suspected electric appliance
	●4 Tulget is installed near the system	Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	• The frequency of the preset station is not tunable	• Preset stations with tunable frequencies —
be received by pressing the F. CALL Rey.	The preset memory has been cleared be- cause the power cordinas been unblugged tonal ong period.	● Preset stations again —23_
Demonstration starts suddenly.	 The power blug was unprupped from the cut et while the power switch was ON, or there was a power facure. 	•This is not malfunction. Press the DEMO = 40 key to cancel the demonstration.

Cassette deck unit

Symptom	Cause	Remedy	
	¹ •Trie tabelis wound toolt got due to megulari. Fill winding	Clean the head referring to "Maintenance Invanisher tabe.	- 49
	A nonrenorded tabe is played	Play a recorded table	
No operation occurs even when an operation key is pressed.	The class-title holder is not closed completely The oberation Hey is pressed immediately after chainly the cassette holder. The oberation Hey is pressed in less than 4.	Observe no der completely Press cherations keys in more than a few seconds after it osing the noider. Press operation keys after war no for more.	<u>→ _18</u>
	seconds after turning the power ON •A tace is not inserted in the unit •The tace is wound tooltight que to megular whoma.	than 4 seconds Insert a table It another table	÷ ~18
	• The tabe is fully wound to one of the reers	 Onlange the table transport direction or re- verse the table insertion or entation 	- <u>19</u>
	The face used is not suitable for DPSS for example the spaces between tunes may be foolshirt.	Refer to: Searching for the desired music program, DPSS:	- ,21
In dubbing, the tape stops at different moments in decks A and B.	• This is true to the difference in the taby engithor characteristics of the mechanisms of two cassette necks.		
The cassette holder cannot be opened by pressing the eject key.	The key is pressed during recording or clay- lineach	• Press in stab impae	- 25
	●The initial computer is mail functioning due to external noise.	norug the power cord and blug it again	- 50
Sound is harsh or high frequencies are not reproduced.	: •The head is dirty : •The tabe is stretched or shrunk	Clean the head referring to "Maintenance" Try another tabe	- <u>49</u>
Sound is distorted.	• The table being blayed was recorded with distorted sound.	• Nanother rade	
Noise is noticeable	● The family input a magnetize d	• 11-m samen ny menega pr <u>e</u> temina <u>sz. Man</u> ny lik	- 49
	Fixternal moise is induced Attace recorded with Dolby NRION is played with Dolby NRION.	Install the system at a distance from other leads to appliances and TV Set the Policy NR to on	<u> </u>
Sound vibrates.	■ The capstans or binch rollers are out. ■ The table is wound irregularly.	 Clean the hoad reterring to "Maintenance". Who the table sgain by fast tenwarding, rewinding us blaving from an end to the other. 	+ 49 + 19
Recording cannot be started by pressing the record key.	The recording protect tab of the cassette has been proken. The cassette holder is not closed completely.	protect tap or block the noie	- _[5]_ - _[18]
	The TAPE input is selected. The table is fully wound to one of the reels.	Select the source to be recorded with the nout selector key. Change the table transport precion of deciding the table masert on or entator.	
Volume of the recorded track changed.	MIC MIXING control knob is proved during recording.	Fig. visum the MIC MIXING controllined to the last.	- 42

JD-405 [Es]

CD nlaver unit

Symptom	Cause	Remedy Associated
A CD is placed in the player but it cannot be played.	The disc is placed upside down The disc position is displaced The disc is extremely dirty The disc is scratched Dew is condensed on the optics lens	Place the disc properly, with the label side facing upward Place the disc properly Clear the disc referring to "Disc handling precautions" Try another disc. Refer to "Beware of condensation" and remove the condensation by evaporation.
Sound is not produced.	■The discinasingt been placed. ■The player is not but to the play mode ■The discis extremely diffy The discis scratoned.	Place a disc in the CD diaver Press the CD (Fift) key Clean the disc referring to "Disc handing =
Sound skips.	The disc is dirty The disc is scratched The player is subject to vibration	Clean the disc referring to "Disc handing +



- a malfunction
 - 2. Do not use 120-minute tapes, for the tape is too thin and gets easily tangled.

3. Do not use contact cleaners because it could cause a maifunction. Be specially careful not to use contact cleaners containing our for they may deform the plastic component.

1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not

CAUTION:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of lables on, or inside the product relating to laser product safety.

KENWOOD CORPORATION 2967-3, ISHIKAWA-CHO.

HACHIOJI-SHI. TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS FOUIPMENT CON-FORMS TO DHHS REGULATIONS NO. 21 CFR 1040. 10. CHAPTER I. SUBCHAPTER J.

Location, Back Panel

For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Recrient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio / TV technician for help.

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For the U.S.A.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable

ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

UD-405 (En

Specifications

Main unit (RXD-G4)

[Amplifier section] Rated power output

70 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 15 kHz with no more than 0.5 % total harmonic distortion. (FTC)

Input sensitivity / Impeda	ance	
AUX		200 mV / 47 kΩ
MIC		2.1 mV / 2.2 kΩ
Signal to noise ratio		
AUX		86 dB (IHF'66)
(FM Tuner section)		

[AM Tuner section]

[Cassette deck section]

(Frequency: 105 kHz)

Heads	·
A deck	Piayback head
B deck	Playback / recording head
	Erasing head
Motors	

Fast winding time Approx. 120 seconds

(C-60 tabe)

[CD player section]

Laser Semiconductor laser Wow & Flutter Unmeasurable Limit

General

Power consumption 180 W Dimensions W: 270 mm (10-5/8") H: 305 mm (12") D: 342 mm (13-7/16")

Weight (net) 9.4 kg (20.7 lb)

Speakers (I S.GA)

opcancis (Lo e 1)		
Enclosure	Bass-reflex type	
Speaker configuration	3-Way system	
Woofer	130 mm, cone type	
Tweeter	65 mm, cone type	
Super tweeter	25 mm, Piezo-Electric type	
Impedance	6 Ω	
Maximum input level	80 W	
General		
Dimensions	W: 180 mm (7-1/16")	
	H: 305 mm (12")	
	D: 238 mm (9-3/8")	
Weight (net)	3.0 kg (6.6 lb) (1 piece)	